



JAMMU AND KASHMIR MEDICAL SUPPLIES CORPORATION LTD.

(Public Sector Undertaking of the Government of Jammu and Kashmir)

Corporate Head Office: Corporate Head Office: Plot No. 58, Friends Colony Satyam Road Trikuta Nagar Jammu

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C O R R I G E N D U M

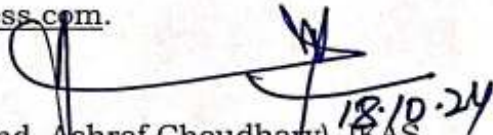
In light of the representation(s) submitted by the prospective bidder(s) thereof, for the finalization of Rate Contract for the procurement of "Machinery & Equipments" uploaded vide No. Mach/2024/635 dated 16.08.2024 **the amendments in the technical specifications as recommended by the technical experts are annexed as Annexure I (15 Pages)**. The critical dates are extended with the approval of tender inviting authority.

The critical dates are as under:

1. Last date and time for submission of online bids: 05.11.2024 upto 1600 hrs
2. Date and time for online opening of technical bids: 06.11.2024 at 1100 hrs

Please Note:

1. Those firms/bidders who have already uploaded their bids are required to re-upload their bids as per amendments and corrigendum issued thereof.
2. All the bidders are requested to keep themselves updated & submit their e-bids through e-portal as per specifications & BOQs. The amendments/modifications shall be available on e-Portal and www.jkm sclbusiness.com.


(Mohd. Ashraf Choudhary) JKAS
General Manager (Adm),
JKMSCL

No.: JKMSCL/Corg/2024/6225-26

Dated: 18.10.2024.

Copy for information to the:-

1. General Manager-(P&S), JKMSCL.
2. P.A to Managing Director, JKMSCL for the information of Managing Director.
3. File

COGNITIVE FUNCTION TESTING SYSTEM WITH WORKSTATION

S.no	Tender Specification	Comments by vendors	Comments by technical committee	Final Amendments by technical committee
2	It should be able to simultaneously record electromyogram (EMG), electrooculogram (EOG), electroencephalogram (EEG), electrocardiogram (ECG), Galvanic skin response (GSR), Temperature, reflex time, pulse, respiration, and hand grip force in human subjects.	<p>It should be able to simultaneously record electromyogram (EMG), electrooculogram (EOG), electroencephalogram (EEG), electrocardiogram (ECG), Galvanic skin response (GSR), Temperature, reflex time, reaction time, pulse, respiration, and hand grip force in human subjects.</p> <ul style="list-style-type: none"> • 2ch Electromyogram (EMG), • 1 ch Electrooculogram (EOG), • 8ch Electroencephalogram (EEG) for 10/20 with caps (S, M, L) and accessories. • 6 leads electrocardiogram (ECG), • 1 ch Galvanic skin response (GSR), • 2ch for Skin and Nasal Temp. • 2ch Reflex goniometer with the hammer. • 1 ch Reaction time with push button, • 1ch Pulse and SP02 • 1ch Respiration belt • 1ch Hand grip force in human subjects. <p>(SR Technomad)</p> <p>It should be able to simultaneously record electromyogram (EMG), electrooculogram (EOG), electroencephalogram (EEG), electrocardiogram (ECG), (Medallion Trading corporation)</p>	Accepted to be defined channels	<p>It should be able to simultaneously record electromyogram (EMG), electrooculogram (EOG), electroencephalogram (EEG), electrocardiogram (ECG), Galvanic skin response (GSR), Temperature, reflex time, reaction time, pulse, respiration, and hand grip force in human subjects.</p> <ul style="list-style-type: none"> • 2ch Electromyogram (EMG), • 1 ch Electrooculogram (EOG), • 8ch Electroencephalogram (EEG) for 10/20 with caps (S, M, L) and accessories. • 6 leads electrocardiogram (ECG), • 1 ch Galvanic skin response (GSR), • 2ch for Skin and Nasal Temp. • 2ch Reflex goniometer with the hammer. • 1 ch Reaction time with push button, • 1ch Pulse and SP02 • 1ch Respiration belt • 1ch Hand grip force in human subjects.

Head
Dept. of Psychology
GOVT. COLLEGE
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(Chairman)

Dr. Suhaib Ahmed
(Member Secretary)

Dr. Shabeer-u-din-Lone
(Member)

Dr. Rizaz Lone
(Member)

Dr. Muzaffar
(Member)

Dr. Musharaf Bashir
(Member)

Dr. Tazeen Khan
(Member)

		<p>It should be able to simultaneously record electromyogram (EMG), electrooculogram (EOG), electroencephalogram (EEG), electrocardiogram (ECG), Galvanic skin response (GSR), Temperature, reflex time, reaction time, pulse, respiration, and hand grip force in human subjects.</p> <p>2ch Electromyogram (EMG), 1 ch Electrooculogram (EOG), 8ch Electroencephalogram (EEG) for 10/20 with caps (S, M, L) and accessories, 6 leads electrocardiogram (ECG), 1 ch Galvanic skin response (GSR), 2ch for Skin and Nasal Temp, 2ch Reflex goniometer with the hammer, 1 ch Reaction time with push button, 1ch Pulse and SPO2, 1ch Respiration belt, 1ch Hand grip force in human subjects.</p> <p>(AD Instruments)</p>		
3a	It should have: Minimum sampling rate of 100 KHz while using all channels.	It should have: Minimum sampling rate of 16 KHz while using all channels. (Medallion Trading corporation)	No Change	No Change
3b	Common mode rejection ratio more than 74dB.	Common mode rejection ratio more than 120 dB. (Medallion Trading corporation)	Change not accepted, as it is a critical parameter for recording noise free data, we will accept to get the best out of our system.	Common mode rejection ratio should be more than 74 dB.
9	Online and Offline analysis like HRV (time domain, Frequency domain), ECG with real time Cardiac Axis and vector analysis, Peak analysis and other automated analysis features on same software.	Online and Offline analysis like HRV (time domain, Frequency domain), ECG analysis, Peak analysis and other automated analysis features on same software (Gentech Marketing New Delhi)	Online HRV analysis helps and set as real time biofeedback and the user can observe the changes in real time. But for wider vendor participation we can keep it both	Online and Offline analysis like HRV (time domain, Frequency domain), ECG with real time Cardiac Axis and vector analysis, Peak analysis and other automated analysis features on same software.

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Dr. Nisha
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Dr. Tazeen Khan
(Member)

10	Wireless belt/sensors for recording recording heart rate variability, temp and GSR and subject posture with 100-meter range.	To be deleted (Medallion Trading corporation)	Change not accepted, however Wireless EEG would be a good add on to the system	Wireless belt/sensors for recording recording heart rate variability, temp and GSR and subject posture with 100-meter range.
		Delete wireless ECG Respiration and Add wireless EEG with cognitive state software (Gentech Marketing ,New Delhi)		Multichannel wireless EEG dry electrodes and wet electrodes caps (S, M, L) with activity, gyro, magnetometer parameters.
11	Should be supplied with 16 psychological battery tests.	To be deleted (Medallion Trading corporation)	No change	No change
12	Four sensor based Balance platform that communicates via Bluetooth on same software for Real-time analysis of Weight, distance and direction travelled by Centre of Force (CoF), Variability in distance travelled by CoF, weight-bearing percentage (left/right, fore/rear foot) etc analysis along with EMG data for body Sway and posture analysis	To be deleted (Medallion Trading corporation)	Change not accepted.	Four sensor based Balance platform/ heel & Toe sensors to communicates via Bluetooth/RF on same software for Real-time analysis of Weight, distance and direction travelled by Centre of Force (CoF), Variability in distance travelled by CoF, weight-bearing percentage (left/right, fore/rear foot) etc analysis along with EMG data for body Sway and posture analysis
		Four sensor based Balance platform that communicates via Bluetooth / Heel Toe sensor that communicates RF for posture analysis (Gentech Marketing ,New Delhi)	Change accepted	

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DIGITAL PHYSIOGRAPH

S.no	Tender Specification	Comments by vendors	Comments by technical committee	Final Amendments by technical committee
11.	It should allow students to save their laboratory progress and PDF reports of their data.	<p>The Student should be able to access the Content online with a feature to save their laboratory progress and PDF report of their data. through their Smart phones, Laptops etc (Global Lifecare Pvt Ltd)</p> <p>The Student should access the learning software online through their mobile phones, tablets, laptops, etc, and save their laboratory progress and PDF report of their data. (SRTechnomed Pvt Ltd)</p> <p>The Student should access the learning software online through their mobile phones, tablets, laptops, etc, and save their laboratory progress and PDF report of their data. (ADinstruments)</p>	Accepted, as it allows students to have access of their recorded data.	It should allow to access the recorded content online with a feature to save their laboratory progress and PDF report of their data. through their Smart phones, Laptops etc

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12.	Lesson authoring/editing service must include content including pre-developed experimental protocols, background information on each experiment, transducer setup, data acquisition settings, and example data as per requirement	Lesson authoring/editing service must include content including pre-developed experimental protocols, background information, allows Assignments with MCQs, etc on each experiment can be performed by faculty members online through mobile, tablets, laptops, desktop transducer setup and access the performance of the students online with data acquisition settings, example data of animal and humans as per requirement. (SR Technomad Pvt Ltd) Lesson authoring/editing service must include content including pre-developed experimental protocols, background information, allows Assignments with MCQs, etc on each experiment can be performed by faculty members online through mobile, tablets, laptops, desktop transducer setup and access the performance of the students online with data acquisition settings, example data of animal and humans as per requirement. (AD Instruments)	Accepted, it allows the faculty members to look in to the performance of the students and take test of the practical's based questions on same platform.	Lesson authoring/editing service must include content including pre-developed experimental protocols, background information, allows Assignments with MCQs, etc on each experiment can be performed by faculty members online through mobile, tablets, laptops, desktop transducer setup and access the performance of the students online with data acquisition settings, example data of animal and humans as per requirement.
Added Points		System should include the following experiments for teaching purposes Human Physiology, Airflow, Autonomic Nervous System (ANS), Blood Clotting, Blood Counting, Blood Pressure, Body Temperature, Breathing, Cardiorespiratory Effects of Exercise, Cardiovascular Effects of Exercise, Diving Response, Electroencephalography (EEG), Electro-oculography (EOG), Energy Expenditure & Exercise, Glucose Absorption Heart & ECG, Heart & Peripheral Circulation, Heart Sound, Kidney & Urine, Lung Volumes Mechanics of Ventilation, Muscle & EMG, Peripheral Nerve Function, Reflexes and Reaction Times, Sensory Illusions, Sensory Physiology, Skeletal Muscle Function Spinal Reflexes, Stroop Test, Water Balance.	Accepted as per NMC Animal Simulation for amphibian and Mammalian Experiments in Physiology are required	System should include the following experiments for teaching purposes Human Physiology, Airflow, Autonomic Nervous System (ANS), Blood Clotting, Blood Counting, Blood Pressure, Body Temperature, Breathing, Cardiorespiratory Effects of Exercise, Cardiovascular Effects of Exercise, Diving Response, Electroencephalography (EEG), Electro-oculography (EOG), Energy Expenditure & Exercise, Glucose Absorption Heart & ECG, Heart & Peripheral Circulation, Heart Sound, Kidney & Urine, Lung Volumes Mechanics of Ventilation, Muscle

Head
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Dr. Stabeer u-din-Lone (Member)
Dr. Revad Lone (Member)
Dr. Nida (Member)
Dr. Mushamf Begir (Member)
Dr. Tazeen Khan (Member)

11/02/24

		<p>Animal Physiology Animal Metabolism, Frog Heart, Frog Nerve, Frog Neuromuscular Junction, Frog Skeletal Muscle, Gin Trap Closure Reflex, Intracellular Action Potentials. Animal Simulation for amphibian and Mammalian Experiments in Physiology</p> <p>(Global Life care pvt ltd)</p>		<p>&EMG, Peripheral Nerve Function, Reflexes and Reaction Times, Sensory Illusions, Sensory Physiology, Skeletal Muscle Function Spinal Reflexes, Stroop Test, Water Balance.</p> <p>Animal Physiology Animal Metabolism, Frog Heart, Frog Nerve, Frog Neuromuscular Junction, Frog Skeletal Muscle, Gin Trap Closure Reflex, Intracellular Action Potentials. Animal Simulation for amphibian and Mammalian Experiments in Physiology</p>
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DATA ACQUISITION SYSTEM FOR WIRELESS PHYSIOLOGICAL SYSTEM IN YOGA LAB

S.no	Tender Specification	Comments by vendors	Comments by technical committee	Final Amendments by technical committee
6.	Should have also bluetooth for data transmission for portable mobile devices for field kinematic applications.	Should have also bluetooth/RF for data transmission for portable mobile devices for field kinematic applications. (Gentech Marketing, New Delhi)	Accepted	Should have also bluetooth/RF for data transmission for portable mobile devices for field kinematic applications
9.	The system should be supplied with compatible wireless belts of different sizes to record the chest ECG signals, respiration, Acceleration (3 axis) Activity, Skin Treatment SPO2 and GSR at-least 8 hrs data recording and demand.	It is biased to a certain company.this type of configuration is only available in AD Instruments through 3 rd party equivilal system UK.No other vendor can match this configuration so only AD Instruments can participate.make it generalised for wider participation (Gentech Marketing, New Delhi)	SPO2 and GSR are important parameters in yoga lab,so no change	NO Change
17	Each EMG sensor should come with in-built DOF tri-axial accelerometer, gyro and magnetometer signals.	Each EMG sensor with DOF triaxial accelerometer, gyro and magnetometer signals. (Gentech Marketing, New Delhi)	Change not accepted, as we would get more parameters as this system will also be used during performing yoga and activity.	Each EMG sensor with inbuilt DOF triaxial accelerometer, gyro and magnetometer signals.
18	IMU data should allow the Lower and Upper body gait analysis parameters.	Should come with wireless transducers to record body gait analysis parameters, heel and toe pressure transducer, goniometer transducer with video synchronization during subject activities (Gentech Marketing, New Delhi)	IMU sensors data can provide us Lower and Upper body gait analysis depending on the number of IMU channels and specialised software programme, So No change	No Change

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**POSTGRADUATE DEPARTMENT OF PHYSIOLOGY
GOVERNMENT MEDICAL COLLEGE, SRINAGAR**

AUTONOMIC FUNCTION TEST (AFT) WITH TILT TABLE

S.no	Tender Specification	Comments by vendors	Comments by technical committee	Final Amendments by technical committee (Read as)
1	Non-invasive beat to beat continuous Blood pressure monitoring in Human with Systolic, Diastolic and other hemodynamic parameters like CO, SV, TPR, etc.) By finger arterial pressure measurement.	Non-invasive beat to beat continuous Blood pressure monitoring in Human with Systolic, Diastolic and other hemodynamic parameters like CO, SV, TPR, BRS, BPV) by finger arterial pressure measurement. (ADInstruments)	Change accepted, we need BRS and BPV analysis modules as a part of this system	Non-invasive beat to beat continuous Blood pressure monitoring in Human with Systolic, Diastolic and other hemodynamic parameters like CO, SV, TPR, BPV, BRS.) by finger arterial pressure measurement
		Non-invasive beat to beat continuous Blood pressure monitoring in Human with Systolic, Diastolic and other hemodynamic parameters like CO, SV, TPR, BRS, BPV) by finger arterial pressure measurement. (SR Technomed)		
2	Continuous ECG monitoring and recording with Heart rate variability and other cardiovascular measurement ECG leads (I, II, III, aVL, aVF, aVR and V1 to V6) with real time cardiac vector magnitude and direction analysis	Continuous ECG monitoring and recording with Heart rate variability and other cardiovascular measurement ECG leads (I, II, III,) with real time cardiac vector magnitude and direction analysis (Medallion Trading corporation)	No Change, we want to have V1 to V6 ECG leads.	No Change
		Suggestion for BRS and BPV software and HRV software (Geotech Marketing, New Delhi)	BRS and BPV has been already added in above point.	Non-invasive beat to beat continuous Blood pressure monitoring in Human with Systolic, Diastolic and other hemodynamic parameters like CO, SV, TPR, BPV, BRS.) by finger arterial pressure measurement

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3	Capable of recording atleast 2 channel ECG, EMG and EEG.	Capable of recording at-least 2 channel ECG (Medallion Trading corporation)	No Change , we need universal amplifier to perform varied teaching and research application including ECG, EMG , EEG etc	No Change
4	Dynamometer to study handgrip strength profile with heel & toe /balance board for static posturography studies communicates via Bluetooth on same software.	To be deleted (Medallion Trading corporation)	Can't be deleted as hand grip with posturography is important	Dynamometer to study handgrip strength profile with heel & toe sensors /balance board for static posturography studies communicates via Bluetooth/RF on same software.
		Dynamometer to study handgrip strength profile with heel and toe/balance board for static posturography studies communicates via Bluetooth or radio frequency on same software. (Gentech Marketing, New Delhi)	Change accepted . RF/Bluetooth both are equally suitable for our requirement	
5	Number of channels: 24 or more channels high speed USB Data Acquisition system for wired and wireless parameters	Number of channels: 24 or more channels high speed USB Data Acquisition system for wired (Medallion Trading corporation)	No change. we intend to get an advance system with maximum number of input channels to cover wireless and wired parameters simultaneously.	No Change
		Number of channels: 16 or more channels high speed USB Data Acquisition system for wired and wireless parameters. (GentechMarketing, New Delhi)		
08	The Beat to beat Blood pressure monitor should be supplied with Height correction and finger cuffs of three different sizes	(Delete this point) Should have automatic height correcting unit which automatically corrects for hydrostatic pressure change	height corrected data is very crucial during the tilt table test and we	The Beat to beat Blood pressure monitor should be supplied with built/seperate height correction

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<p>(i.e. small, medium & large) ? cuff should be supplied with the blood pressure monitor.</p> <p>The cuff should have accuracy: 1% of full scale (max. 3 mm Hg), zeroing automatic and finger cuffs should be reusable finger cuffs with minimal usage without damage and self-life of at least 3 years or more.</p> <p>Should have height correcting unit which automatically corrects for hydrostatic pressure changes due to movement in hand position relative to the heart.</p>	<p>due to gravitational changes without movement in hand position relative to the heart. (Gentech Marketing, New Delhi)</p>	<p>need it, whether the function is inbuilt or separately provided</p>	<p>unit and finger cuffs of three different sizes (i.e. small, medium & large) cuff should be supplied with the blood pressure monitor.</p> <p>The NIBP should have accuracy: 1% of full scale (max. 3 mm Hg), zeroing automatic and finger cuffs should be reusable finger cuffs with minimal usage without damage and self-life of at least 3 years or more.</p> <p>Should have height correcting unit which automatically corrects for hydrostatic pressure changes due to movement in hand position relative to the heart.</p>
<p>9 Transducers for Finger PPG, Respiration Sensor, Airflow, GSR, Temperature measurement, Hand dynamometer and other accessories required.</p>	<p>To be deleted (Medallion Trading corporation)</p>	<p>No Change</p>	<p>No Change</p>
<p>10 Wireless belt sensors to record ECG signals, Acceleration (3 axis), Activity, Respiration, Skin Temperature, GSR, SPO2, Pulse plethysmography with range of 100 times or more</p>	<p>sensors to record ECG signals, Acceleration (3 axis), Activity, Respiration (Medallion Trading corporation)</p> <p>The system should be supplied with comparable with wireless transducer/sensors for recording ECG, Respiration, and PPG, GSR simultaneously on same software with additional wired SPO2 (Gentech Marketing, New Delhi)</p>	<p>No change, we need a system with a facility to record all these parameters wirelessly.</p>	<p>No Change</p>
<p>11 All transducers and accessories wired and wireless should record and analyses in same software simultaneously and independently as per user demand</p>	<p>To be deleted (Medallion Trading corporation)</p>	<p>No Change</p>	<p>No Change</p>
<p>12 Hand held tonometer for vascular function testing at carotid, femoral, brachial pulse</p>	<p>To be deleted (Medallion Trading corporation)</p>	<p>Added point Quantity to be 2</p>	<p>Quantity of tonometer is 2</p>

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11/10/24

<p>measurement.</p> <ul style="list-style-type: none"> Working principle of applanation tonometry. Dimensions and design conducive for hand-held applications. Pressure sensor of high frequency response for accurate reproduction of arterial pressure waveforms. Response time should be low enough to accurately detect fluctuations in pulse arrival time as small as 2 ms referenced to simultaneously recorded ECG signal. Compatibility with main data acquisition unit and software for real time display, recording and analysis with other transducers. 		
<p>17 Motorized electric tilt table: - Safe working load and lifting capacity (from minimum height) of 180 kgs</p> <p>Individual banking castors with electric height and tilting operation with hand switch control and tilt angle inclinometer as standard.</p> <p>Lowers to wheelchair height for ease of patient transfer.</p>	<p>Tilt table should tilt the subject from 0 to 85 deg within 15 seconds.</p> <p>In Built-Battery Backup to bring the patient down in case of power failure or emergency spring.</p> <p>(ADInstruments)</p> <p>Safe working load and lifting capacity (from minimum height) of 160 kgs</p> <p>Individual banking castors and tilting operation with hand switch control and tilt angle inclinometer as standard</p> <p>Lowers to wheelchair height for ease of patient transfer.</p> <p>To be deleted</p>	<p>Accepted with modification.</p> <p>Safe working load and lifting capacity (from minimum height) of more than 150 kg. Tilting time of the table from 0 to 85 deg within 15 seconds.</p> <p>Facility to bring the patient down in case of power failure or emergency spring. Individual banking castors with electric height and tilting operation with hand switch control and tilt angle inclinometer as standard.</p> <p>Lowers to wheelchair height for ease of patient transfer.</p>

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 11/10/24

		(Medallion Trading corporation)		
		Safe working load and lifting capacity (from minimum height) of 130 kgs. (Gentech Marketing, New Delhi)		
		Add to the specs Tilt table should tilt the subject from 0 to 85 deg within 15 seconds.		
		In Built-Battery Backup to bring the patient down in case of power failure or emergency spring. (SR Technomed)		
18	Should be European CE/USFDA/BIS Certified	ISO and IEC/ European CE/USFDA/BIS Certified (SR Technomed)	Accepted, as ISO is also important Certificate	ISO and IEC/ European CE/USFDA/BIS Certified

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EXERCISE PHYSIOLOGY SYSTEM WITH BICYCLE ERGOMETER

S.no	Tender Specification	Comments by vendors	Comments by technical committee	Final Amendments by technical committee
2.	The system should include High speed USB based 24 Channel data acquisition system.	The system should include High Speed USB based data acquisition system. (Medallion Trading Corporation)	Number of channels are important to define as per the parameters/signals to be recorded. Greater number of channels will allow us to record more	No Change
		The system should include High Speed USB based at-least 4 /8Channel data acquisition system (Gentech Marketing Distribution Pvt Ltd)	Same as above	
3	The system should be supplied with branded compatible computer 17 tenth generation,8GB RAM,1TB HDD,Windows 10,MS Office,Wi-Fi,Bluetooth with monitor,lazer printer	No change	Latest configuration of PC and other accessories	The system should be supplied with branded compatible computer 17 tenth generation,8GB RAM,1TB HDD,Windows 10,MS Office,Wi-Fi,Bluetooth with monitor,lazer printer
7.	Should have highly sensitive oxygen and carbon dioxide sensor with adequate variable flow range for best performance and results.	Should have highly sensitive oxygen and carbon dioxide sensor with adequate variable flow range for CO2 Sensor. (Gentech Marketing and distribution)	O2 and CO2 Sensors range and sensitivity ensures the accuracy and data integrity.	No Change
7.	Range: 0-10% and Resolution: 0.1% CO2 O2 Sensor	Range: 0-10 % and Resolution: 0.1% CO2 (Medallion Trading Corporation)	Its a typo error, accepted	Range: 0-100% and Resolution: 0.01% CO2 to 0.1% O2
9.	The automatic online and offline analysis of Heart rate variability in Time domain & Frequency domain on same software.	The analysis of Heart rate variability in Time domain & Frequency domain on same software. (Gentech Marketing Distribution Pvt Ltd)	Online HRV analysis helps and act as real time biofeedback and motivate and encourage the exercising subject and the	No Change

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			user can observe the changes in real time.	
11.	Should have a noise free wireless multichannel ECG, R-R interval, Heart Rate, Skin temp, GSR, Respiration rate, SPO2, PPG Accelerometer activity integrated into the system.	The system should be supplied with compatible wireless belts of different sizes to record the chest ECG signals, respiration, Acceleration (3 axis) Activity, at-least 8 hrs data recording and logging with SPO2 wired (Gentech Marketing Distribution Pvt Ltd)	Wireless Parameters are important while exercising.	No Change
		Should have a noise free 12 lead ECG, R-R interval, Heart Rate, Respiration Rate, Oxygen Saturation (SPO2) integrated into the system. (Medallion Trading Corporation)	Multichannel ECG is already mentioned in the specification.	
12.	The range of Wireless parameters should be 100 meters or above for real time recording and also have logging mode as well.	Should be deleted (Medallion Trading Corporation)	No change as wireless devices comes with some range.	No Change
15.	Accessories: - Mouth-piece, head gear, tubing and flow sensors, mixing chamber connectors, ECG electrodes, filters and Douglas bags to be provided.	Accessories:- Mask with Headgear - at-least two each of pediatric, small and medium size, Mouthpiece (1000 Pcs), tubing and flow sensors, mixing chamber connectors, ECG electrodes - 500 pcs, Anti-Bacterial filters 500 pcs to be provided. (Medallion Trading Corporation)	Accepted with modification as per our teaching and research needs.	Accessories: - Face Mask with Headgear sizes small and medium size, Mouthpiece (1000 Pcs), tubing and flow sensors, mixing chamber connectors, ECG electrodes - 1000 pcs, filters (50) and Douglas bags (50) to be provided.

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Dr. Tazeen Khan
(Member)

17.	It should be supplied or interfaced with a compatible branded Bicycle Ergometer	Load up-to 1000Watt, speed independent, Speed range 30- 100 rpm, Patient weight (max.) 160 kg * The control unit must have Display / patient display load, rpm, speed, time, blood pressure, heart rate (LCD) / rpm (LED), Keyboard Graphic display (load, heart rate) * Incremental protocols, 10 User programmable, Load adjustment manual, Integrated Stress test programs - remote control through PC-ECG and ECG recorders documentation Should have following options for upgrade. * Diagnostic tests for athletes, seamlessly interfaces via COM (Medallion Trading Corporation)	Accepted, modification as per requirement.	It should be supplied or interfaced with a compatible branded Bicycle Ergometer at-least (600watts) with digital display And compatible treadmill (2 HP) with digital display.

 Head of Department
 Dr. Shiekh Imran Sayeed (Chairman)  Dr. Suhail Ahmed (Member Secretary)  Dr. Shabeer-u-din-Lone (Member)  Dr. Fayaz Lone (Member)  Dr. Nida Noor (Member)  Dr. Musharaf Bashir (Member)  Dr. Tazeen Khan (Member)

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